

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/762,926

DATE: 02/27/2001

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

#5  
PCT  
10.11.01  
ENTERED

```

4 <110> APPLICANT: Thonnard, Joelle
6 <120> TITLE OF INVENTION: Novel Compounds
9 <130> FILE REFERENCE: BM45330
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/762,926
C--> 11 <141> CURRENT FILING DATE: 2001-02-14
11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/05989
12 <151> PRIOR FILING DATE: 1999-08-13
14 <150> PRIOR APPLICATION NUMBER: GB 9818004.5
15 <151> PRIOR FILING DATE: 1998-08-18
17 <160> NUMBER OF SEQ ID NOS: 9
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 2769
23 <212> TYPE: DNA
24 <213> ORGANISM: Bacteria
26 <400> SEQUENCE: 1
27 atgagatctt ctttccggtt gaagccgatt tgtttttatc ttatgggtgt tatgctatat 60
28 catcatagtt atgccgaaga tgcagggcgc gcgggcagcg aggcgcagat acagggttttg 120
29 gaagatgtgc acgtcaaggc gaagcgcgta ccgaagaca aaaaagtgtt taccgatgcg 180
30 cgtgccytat cgacccgtca ggatatattc aaatccagcg aaaacctga caacatcgta 240
31 cgcagcatcc ccggtgctgt tacacagcaa gataaaagct cgggcattgt gtctttgaat 300
32 attcgcggcg acagcgggtt cgggcgggtc aatacagatg tggacggcat caccgagacc 360
33 ttttattcga cttctaccga tgcgggcagg gcaggcgggt catctcaatt cggtcgcatc 420
34 gtcgacagca attttattgc cggactggat gtctgcaaaq gcagcttcag cggctcggca 480
35 ggcatacaaa gccttgccgg ttcggcgaat ctgcggactt taggcgtgga tgacgtcgtt 540
36 cagggcaata atacctacgg cctgctgcta aaaggtctga ccggcaccac ttcaaccaaa 600
37 ggtaatgcga tggcggcgat aggtgcgcgc aaatggctgg aaagcggagc atctgtcgg 660
38 gtgctttlac ggcacagcag gcgcacgtgg gcgcaaaatt accgcgtggg cggcggcggg 720
39 cagcaccatc gaaattttgg cgcggaatat ctggaacggc gcaaacagcg atattttgta 780
40 caagaaggcg ggttgaaatt caattccaac agcggaaaaa gggagcggga tttccaaagg 840
41 ccgtactgga aaaccaaagt gtatcaaaaa tacaatgacc cccaagaact gcaaaaatac 900
42 atcgaaagtc atgacaaaag ctggcgggaa aacctggcgc cgcaatacga catcaccccc 960
43 atcgatccgt ccagcctgaa gcagcagtcg gcaggcaatc tgtttaaatt ggaatacagc 1020
44 ggcgtattca ataaatacac ggcgcaattt cgcgatttaa acaccaaaat cggcagccgc 1080
45 aaaatcatca accgcaatta tcaattcaat tacggtttat ctttaaaactc atatgccaac 1140
46 ctcaatctga ccgcagccta caattcgggc aggcagaaat atccgaaaag gtcgaagttt 1200
47 acaggctggg ggccttttaa agattttgaa acctacaaca acgcgaaaat cctcgacctc 1260
48 aacaacaccg ccacctcccg gctgccccgc gaaaccgagt tgcaaacacc tttgggcttc 1320
49 aattatttcc acaacgaata cggcaaaaac cgttttctcg aagaattggg gctgtttttc 1380
50 gacggctccg atcaggacaa cgggclttat tctattttgg ggcggtttta gggcgataaa 1440
51 gggctgctgc ccaaaaaatc aaccatcgtc caaccggccg gcagccaata ttcaaacacg 1500
52 ttctacttcg atgccgcgct caaaaaagac atttaccgct taaactacag caccaatacc 1560
53 gtcggtatcc gtttcggcgg cgaatatagc ggctattacg gctcggatga cgaatttaag 1620
54 cgggcattcg gagaaaactc gccgacatac aagaaacatt gcaaccagag ctgcgggaatt 1680
55 tatgaacccg tattgaaaaa atacggcaaa aagcgcgcca acaaccattc ggtcagcatt 1740
56 agtgcggact tcggcgatta tttcatgccg ttcgccagct attcgcgcac acaccgtatg 1800
57 cccaacatcc aagaaatgta tttttcccaa atcggcgact ccygcgttca caccgcctta 1860

```

## RAW SEQUENCE LISTING

DATE: 02/27/2001

PATENT APPLICATION: US/09/762,926

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

```

58 aaaccagagc gcgcaaacac ttggcaattt ggcttcaata cctataaaaa aggattgtta 1920
59 aaacaagatg atacattagg attaaaactg gtcggctacc gcagccgcat cgacaactac 1980
60 atccacaacg ttacgggaa atggtgggat ttgaacggga atattccgag ctgggtcagc 2040
61 agcaccgggc ttgcctacac catccaacac cgcaatttca aagacaaagt acacaaacac 2100
62 ggttttgagt tggagctgaa ttacgattat gggcgttttt tcaccaacct ttcttaegcc 2160
63 tatcaaaaaa gcacgcaacc gaccaacttc agcgaatgga gcgaatcgcc caacaatgcg 2220
64 tccaaagaag accaactcaa acaagggtat gggttgagca gggtttccgc cctgccgcca 2280
65 gattacggac gtttggaagt cggtagcgcg tggttgggca acaaaactgac ttggggcgcc 2340
66 gcgatgcgct atttcgcaa gagcatccgc gcgacgctg aagaacgcta tatcgacggc 2400
67 accaacgggg gaaataccag caatgtccg caactgggca agcgttccat caaacaacc 2460
68 gaaacccttg ccgcacagcc ttgtattttt gatttttacg ccgcttacga gccgaagaaa 2520
69 aaccttattt tccgcgccga agtcaaaaaa ctgttcgaca ggcgttatat cgtccgcctc 2580
70 gatgcgggca atgatcgcc aacgcagcgt tattacagtt cgttcgaccc gaaagacaag 2640
71 gacgaagaag taacgtgtaa tgcgtataaa acggtgtgca acggcaataa cggcggcaca 2700
72 acaaaaagcg tattgaccaa ttttgacgcg ggacgcacct ttttgataac gatgagctac 2760
73 aagtttttaa
75 <210> SEQ ID NO: 2
76 <211> LENGTH: 922
77 <212> TYPE: PRT
78 <213> ORGANISM: Bacteria
80 <400> SEQUENCE: 2
81 Met Arg Ser Ser Phe Arg Leu Lys Pro Ile Cys Phe Tyr Leu Met Gly
82 1 5 10 15
83 Val Met Leu Tyr His His Ser Tyr Ala Glu Asp Ala Gly Arg Ala Gly
84 20 25 30
85 Ser Glu Ala Gln Ile Gln Val Leu Glu Asp Val His Val Lys Ala Lys
86 35 40 45
87 Arg Val Pro Lys Asp Lys Lys Val Phe Thr Asp Ala Arg Ala Val Ser
88 50 55 60
89 Thr Arg Gln Asp Ile Phe Lys Ser Ser Glu Asn Leu Asp Asn Ile Val
90 65 70 75 80
91 Arg Ser Ile Pro Gly Ala Phe Thr Gln Gln Asp Lys Ser Ser Gly Ile
92 85 90 95
93 Val Ser Leu Asn Ile Arg Gly Asp Ser Gly Phe Gly Arg Val Asn Thr
94 100 105 110
95 Met Val Asp Gly Ile Thr Gln Thr Phe Tyr Ser Thr Ser Thr Asp Ala
96 115 120 125
97 Gly Arg Ala Gly Gly Ser Ser Gln Phe Gly Ala Ser Val Asp Ser Asn
98 130 135 140
99 Phe Ile Ala Gly Leu Asp Val Val Lys Gly Ser Phe Ser Gly Ser Ala
100 145 150 155 160
101 Gly Ile Asn Ser Leu Ala Gly Ser Ala Asn Leu Arg Thr Leu Gly Val
102 165 170 175
103 Asp Asp Val Val Gln Gly Asn Asn Thr Tyr Gly Leu Leu Leu Lys Gly
104 180 185 190
105 Leu Thr Gly Thr Asn Ser Thr Lys Gly Asn Ala Met Ala Ala Ile Gly
106 195 200 205
107 Ala Arg Lys Trp Leu Glu Ser Gly Ala Ser Val Gly Val Leu Tyr Gly
108 210 215 220

```

## RAW SEQUENCE LISTING

DATE: 02/27/2001

PATENT APPLICATION: US/09/762,926

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

```

109 His Ser Arg Arg Thr Trp Ala Gln Asn Tyr Arg Val Gly Gly Gly Gly
110 225                230                235                240
111 Gln His Ile Gly Asn Phe Gly Ala Glu Tyr Leu Glu Arg Arg Lys Gln
112                245                250                255
113 Arg Tyr Phe Val Gln Gln Gly Gly Leu Lys Phe Asn Ser Asn Ser Gly
114                260                265                270
115 Lys Trp Glu Arg Asp Phe Gln Arg Pro Tyr Trp Lys Thr Lys Trp Tyr
116                275                280                285
117 Gln Lys Tyr Asn Asp Pro Gln Glu Leu Gln Lys Tyr Ile Glu Gly His
118                290                295                300
119 Asp Lys Ser Trp Arg Glu Asn Leu Ala Pro Gln Tyr Asp Ile Thr Pro
120 305                310                315                320
121 Ile Asp Pro Ser Ser Leu Lys Gln Gln Ser Ala Gly Asn Leu Phe Lys
122                325                330                335
123 Leu Glu Tyr Asp Gly Val Phe Asn Lys Tyr Thr Ala Gln Phe Arg Asp
124                340                345                350
125 Leu Asn Thr Lys Ile Gly Ser Arg Lys Ile Ile Asn Arg Asn Tyr Gln
126                355                360                365
127 Phe Asn Tyr Gly Leu Ser Leu Asn Ser Tyr Ala Asn Leu Asn Leu Thr
128                370                375                380
129 Ala Ala Tyr Asn Ser Gly Arg Gln Lys Tyr Pro Lys Gly Ser Lys Phe
130 385                390                395                400
131 Thr Gly Trp Gly Leu Leu Lys Asp Phe Glu Thr Tyr Asn Asn Ala Lys
132                405                410                415
133 Ile Leu Asp Leu Asn Asn Thr Ala Thr Phe Arg Leu Pro Arg Glu Thr
134                420                425                430
135 Glu Leu Gln Thr Thr Leu Gly Phe Asn Tyr Phe His Asn Glu Tyr Gly
136                435                440                445
137 Lys Asn Arg Phe Pro Glu Glu Leu Gly Leu Phe Phe Asp Gly Pro Asp
138                450                455                460
139 Gln Asp Asn Gly Leu Tyr Ser Tyr Leu Gly Arg Phe Lys Gly Asp Lys
140 465                470                475                480
141 Gly Leu Leu Pro Gln Lys Ser Thr Ile Val Gln Pro Ala Gly Ser Gln
142                485                490                495
143 Tyr Phe Asn Thr Phe Tyr Phe Asp Ala Ala Leu Lys Lys Asp Ile Tyr
144                500                505                510
145 Arg Leu Asn Tyr Ser Thr Asn Thr Val Gly Tyr Arg Phe Gly Gly Glu
146                515                520                525
147 Tyr Thr Gly Tyr Tyr Gly Ser Asp Asp Glu Phe Lys Arg Ala Phe Gly
148                530                535                540
149 Glu Asn Ser Pro Thr Tyr Lys Lys His Cys Asn Gln Ser Cys Gly Ile
150 545                550                555                560
151 Tyr Glu Pro Val Leu Lys Lys Tyr Gly Lys Lys Arg Ala Asn Asn His
152                565                570                575
153 Ser Val Ser Ile Ser Ala Asp Phe Gly Asp Tyr Phe Met Pro Phe Ala
154                580                585                590
155 Ser Tyr Ser Arg Thr His Arg Met Pro Asn Ile Gln Glu Met Tyr Phe
156                595                600                605
157 Ser Gln Ile Gly Asp Ser Gly Val His Thr Ala Leu Lys Pro Glu Arg

```

## RAW SEQUENCE LISTING

DATE: 02/27/2001

PATENT APPLICATION: US/09/762,926

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

```

158      610      615      620
159 Ala Asn Thr Trp Gln Phe Gly Phe Asn Thr Tyr Lys Lys Gly Leu Leu
160 625      630      635      640
161 Lys Gln Asp Asp Thr Leu Gly Leu Lys Leu Val Gly Tyr Arg Ser Arg
162      645      650      655
163 Ile Asp Asn Tyr Ile His Asn Val Tyr Gly Lys Trp Trp Asp Leu Asn
164      660      665      670
165 Gly Asn Ile Pro Ser Trp Val Ser Thr Gly Leu Ala Tyr Thr Ile
166      675      680      685
167 Gln His Arg Asn Phe Lys Asp Lys Val His Lys His Gly Phe Glu Leu
168      690      695      700
169 Glu Leu Asn Tyr Asp Tyr Gly Arg Phe Phe Thr Asn Leu Ser Tyr Ala
170 705      710      715      720
171 Tyr Gln Lys Ser Thr Gln Pro Thr Asn Phe Ser Asp Ala Ser Glu Ser
172      725      730      735
173 Pro Asn Asn Ala Ser Lys Glu Asp Gln Leu Lys Gln Gly Tyr Gly Leu
174      740      745      750
175 Ser Arg Val Ser Ala Leu Pro Arg Asp Tyr Gly Arg Leu Glu Val Gly
176      755      760      765
177 Thr Arg Trp Leu Gly Asn Lys Leu Thr Leu Gly Gly Ala Met Arg Tyr
178      770      775      780
179 Phe Gly Lys Ser Ile Arg Ala Thr Ala Glu Glu Arg Tyr Ile Asp Gly
180 785      790      795      800
181 Thr Asn Gly Gly Asn Thr Ser Asn Val Arg Gln Leu Gly Lys Arg Ser
182      805      810      815
183 Ile Lys Gln Thr Glu Thr Leu Ala Arg Gln Pro Leu Ile Phe Asp Phe
184      820      825      830
185 Tyr Ala Ala Tyr Glu Pro Lys Lys Asn Leu Ile Phe Arg Ala Glu Val
186      835      840      845
187 Lys Asn Leu Phe Asp Arg Arg Tyr Ile Asp Pro Leu Asp Ala Gly Asn
188      850      855      860
189 Asp Ala Ala Thr Gln Arg Tyr Tyr Ser Ser Phe Asp Pro Lys Asp Lys
190 865      870      875      880
191 Asp Glu Glu Val Thr Cys Asn Ala Asp Lys Thr Leu Cys Asn Gly Lys
192      885      890      895
193 Tyr Gly Gly Thr Ser Lys Ser Val Leu Thr Asn Phe Ala Arg Gly Arg
194      900      905      910
195 Thr Phe Leu Ile Thr Met Ser Tyr Lys Phe
196      915      920
198 <210> SEQ ID NO: 3
199 <211> LENGTH: 2769
200 <212> TYPE: DNA
201 <213> ORGANISM: Bacteria
203 <400> SEQUENCE: 3
204 atgagatctt ctttcgggtt gaagccgatt tgtttttatc ttatgggtgt tatgctatat      60
205 catcatagtt atgccgaaga tgcagggcgc gcgggcagcg aggcgcagat acaggttttg      120
206 gaagatgtgc acgtcaagc gaagcgcgta cggaaagaca aaaaagtgtt taccgatgcg      180
207 cgtgccgtat cgaccgtca ggatatattc aaatccagcg aaaacctga caacatcgta      240
208 cgcagcatcc ccggtgcgtt tacacagcaa gataaaagct cgggcattgt gtctttgaat      300

```

## RAW SEQUENCE LISTING

DATE: 02/27/2001

PATENT APPLICATION: US/09/762,926

TIME: 14:54:35

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

```

209 attcgcggcg acagcggggt cgggcggggtc aatacgatgg tggacggcat cacycagacc 360
210 tttttattcga cticlacoga tgcggggcagg gcaggcgggtt catctcaatt cggtgcatct 420
211 qtcgacagca atttttattgc cggactggat gtcgtcaaag gcagcttcag cggctcgga 480
212 ggcatacaaca gccttgcccg ttcggcggaat ctgcggactt taggcgtgga tgacytcgtt 540
213 cagggaata atacctacgg cctgctgcta aaaggctga ccggcaccac ttcaacacaa 600
214 ggtaatgcga tlygcggcgat aggtgcgcgc aaatggctgg aaagcggagc atctgtcgg 660
215 gtgccttacg ggcacagcag gcgcagcgtg gcgcacaaat accgcgtggg cggcggcggy 720
216 cagcacatcg gaaatttttg cgcggaatat ctggaaacgg gcaagcagcg atattttgta 780
217 caagaaggcg ggttgaaatt caattccaac agcggaaaaat gggagcggga ttccaaagg 840
218 ccgtactgga aaaccaagt gatatcaaaa tacaatgacc cccaagaact gcaaaaatac 900
219 atcgaaagtc atgacaaaag ctgcggggaa aacctggcgc cgaatacga catcaccccc 960
220 atcgatccgt ccagcctgaa gcaagcagtc gcaaggcaatc tgtttaaatt ggaatacgac 1020
221 ggcgtattca ataaatacac ggcgcaatct cgcgatttaa acacaaaaat cggcagccgc 1080
222 aaaatcatca accgcaatta tcaattcaat tacggtttat ctttaaacctc atatgccaac 1140
223 ctcaatctga ccgcagccta caattcgggc aggcagaaat atccgaaagg gtcgaaagttt 1200
224 acaggctggg ggcctttttaa agattttgaa acctacaaca acgcgaaaat cctcgacctc 1260
225 aacaacaccc ccaccttcgg gctgccccgc gaaacccagt tgcacacac tttgggcttc 1320
226 aattatttcc acacgaata cggcaaaaac cgtcttcctg aagaattggg gctgttttcc 1380
227 gacggtccgg atcaggacaa cgggctttat tccattttgg ggcggtttaa gggcgataaa 1440
228 gggctgctgc cccaaaaatc aacctcgtc caacggcccg gcagccaata ttcaacacg 1500
229 ttctacttcg atgcgcgct caaaaaagac atttaccgct taaactacag caccaatacc 1560
230 gtgcgctacc gtttcggcgg cgaatatacg ggctattacg gctcgatga cgaatttaag 1620
231 cgggcattcg gagaaaaatc gccgacatac aagaaacatt gcaaccagag ctgcggaatt 1680
232 tatgaacccg tattgaaaaa atacggcaaa aagcgcgcca acaaccattc ggtcagcatt 1740
233 agtgcggact tcggcgatta ttctatgcgc ttcgccagct attcgcgcac acaccgtatg 1800
234 cccaacatcc aagaaatgta tttttcccaa atcggcgact ccggcgttca caccgcctta 1860
235 aaaccagagc gcgcacacac ttggcaatct ggcttcaata cctataaaaa aggattgtta 1920
236 aaacaagatg atacattagg attaaaaact gtcggctacc gcagccgcat cgacaactac 1980
237 atccacaacg tttacgggaa atgggtggat ttgaacggga atattccgag ctgggtcagc 2040
238 agcaccgggc ttgcctacac catccaacac cgcatttca aagacaaagt acacaaacac 2100
239 ggttttgagt tggagctgaa ttacgattat gggcgttttt tcacaaacct ttcttacgcc 2160
240 tatcaaaaaa gcaacgaacc gaccaacttc agcgtatcga gcgaatcgcc caacaatgcg 2220
241 tccaaagaag accaactcaa acaaggttat gggttgagca gggtttcgc cctgcgcgca 2280
242 gattacggac gtttggaagt cggtaacgcg tggttgggca acaaacctgc tttgggcggc 2340
243 gcgatgcgct atttcggcaa gagcatccgc gcgacggctg aagaacgcta tatcgacggc 2400
244 accaacgggg gauataccag caatgtccgg caactgggca agcgttccat caaacaaacc 2460
245 gaaacccttg ccgcgcagcc tttgattttt gatttttacg ccgcttacga gccgaagaaa 2520
246 aaccttatlt tccgcgcgca agtcaaaaat ctgttcgaca ggcgttatat cgatccgctc 2580
247 gatcggggca atgatgcggc aacgcagcgt tattacagtt cgttcgaccc gaaagacaag 2640
248 gacgaagaag taacgtgtaa tgcgtgataa acgttgtgca acggcaata cggcggcaca 2700
249 agcaaaagcg tattgaacca ttttgacgcg ggacgcacct ttttgataac gatgagctac 2760
250 aagtttttaa
252 <210> SEQ ID NO: 4
253 <211> LENGTH: 922
254 <212> TYPE: PRT
255 <213> ORGANISM: Bacteria
257 <400> SEQUENCE: 4
258 Met Arg Ser Ser Phe Arg Leu Lys Pro Ile Cys Phe Tyr Leu Met Gly
259 1 5 10 15

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/762,926

DATE: 02/27/2001

TIME: 14:54:36

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02272001\I762926.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date